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**WW ENGINEERING & SCIENCE**  
**Environmental Services Division**

5555 Glenwood Hills Pkwy SE

Grand Rapids, MI 49512

Phone (616)942-9600

FAX (616)942-6499

**MEMORANDUM**

**Date:** November 17, 1992

**To:** Mary Beth Novy, U.S. EPA, RPM **cc:** 04011, 32

**From:** Liz Uhl, WWES *Liz Uhl*

**Re:** CHRONOLOGICAL DOCUMENTATION OF FIELD ACTIVITIES AT ALBION-SHERIDAN TOWNSHIP LANDFILL SITE

Per your request, I have assembled to the best of my ability the activities at the Albion-Sheridan Township Landfill Site to date. Henceforth, I will put this together on a weekly basis.

**Week of July 20, 1992**

Awarded surveying subcontract to Kapur & Associates.

**Week of August 3, 1992**

Surveying activities at site commenced.

**Week of August 10, 1992**

Surveying activities at the site continued.

Awarded Site Support/Fencing Subcontract to Anson Enterprises.

Collected sample of City of Albion water for analysis (this is the water to be used for decontamination).

Sent September monthly sampling projections to Jan Pels.

**Week of August 17, 1992**

Contacted local hospital to alert them about the field work that would be taking place on the site.

**Week of August 24, 1992**

Awarded drilling subcontract to R&R International.

Performed EM-31, EM-34, and resistivity survey at the site.

Attended Community Relations Meeting.

Began site support construction.

**Week of August 31, 1992**

Sent the preliminary results of the geophysical survey to the U.S. EPA and MDNR.

Continued site support construction.

Met with drillers on-site to scope out site conditions and establish drilling schedule.

**Week of September 7, 1992**

On-site meeting with the U.S. EPA and MDNR to discuss the results of the geophysical survey, stake the initial five drilling locations, and stake the surface water/sediment sampling locations.

Field trailer was delivered and utilities connected.

**Week of September 14, 1992**

Sent October monthly sampling projections to Jan Pels.

Transported bulk of field equipment, health and safety gear and necessary items to perform field investigation to site. Set up field trailer.

Staked fence location.

**Week of September 21, 1992**

Drilling activities at the site commenced, pursued obtaining permission to drill on adjacent properties.

Cleared drilling locations with utilities.

Began drilling at MW1SB.

Began drilling at MW2SB.

Began drilling and vertically sampling MW3SB.

**Week of September 28, 1992**

Continued to clear drilling locations with utilities.

Began drilling and vertically sampling MW4SB.

Continue drilling at MW1SB.

Continue drilling at MW2SB.

Contacted MDNR and U.S. EPA about modifying drilling method in bedrock. Recommended changing from air rotary to rotary wash with water.

Began erecting fence, neighbor objected to location of fence, began negotiations with neighbor.

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**Week of October 5, 1992**

Continued drilling and installed MW1SB.

Continued drilling and installed MW2SB.

Continued drilling and vertically sampling MW3SB.

Continued drilling MW4SB.

Began drilling MW5SB.

Collected surface water samples.

Sent one copy of Magnetometer Survey Work Plan to U.S. EPA.

Continued negotiations with neighbor on fence location.

**Week of October 12, 1992**

Continued drilling and installed MW3SB.

Continued drilling MW4SB.

Continued drilling and installed MW5SB.

Collected sediment samples.

Sent November monthly sampling projections to Jan Pels.

Canvassed adjacent neighbors for addresses and names in order to sample their residential wells.

Sent list of residences to U.S. EPA RPM so that a letter could be send to each of them regarding sampling of their water wells.

Sent a map of recommended surface soil sampling locations along with the rationale for each to U.S. EPA and MDNR.

Conducted preliminary inspection of wetlands NE and SE of the site, inspected toe of RR tracks for leachate seeps and noted their locations.

Sent one copy of Magnetometer Survey Work Plan to MDNR.

Sought approval from James Willis, U.S. EPA Contracting Officer to perform optional magnetometer survey.

Contacted MDNR official responsible for Orchard Knoll Subdivision site, requested key for monitoring wells and copy of report when available. To date, WWES has received nothing from this individual.

Continued negotiations with neighbor on fence location.

**Week of October 19, 1992**

Continued drilling and installed MW4SB.

Drilled and installed LF1.

Drilled and installed MW1SG.

Collected Subsurface Soil Samples from MW1SG and LF1.

Began to survey and develop existing wells.

Collected a round of water levels from existing monitoring wells.

Developed a preliminary unconsolidated aquifer ground water flow map and a preliminary shallow bedrock aquifer ground water flow map.

Staked surface soil sample locations with the assistance of the MDNR.

Collected surface soil samples.

Contacted residents to establish sampling time.

Sent letter to James Willis, U.S. EPA Contracting Officer concerning additional cadmium health and safety monitoring during installation of landfill borings. New regulations are going into effect on December 14, 1992 and WWES believes it is prudent to conduct the monitoring. To date, WWES has received no response from Mr. Willis.

Cleared and flagged eastern property boundary to facilitate clearing with bulldozer for fence installation.

Asked neighbor to walk the final fence location on the eastern side prior to installing it.

**Week of October 26, 1992**

Continued to survey and develop existing wells.

Began to drill and vertically sample MW6SB.

Collected residential well samples.

Examined and characterized plant communities, looked for evidence of on-site fauna, noted drainage patterns on and around the site.

Expanded site grid at four locations to facilitate the magnetometer survey.

Performed the magnetometer survey.

Met with U.S. EPA on-site to view drilling progress.

**Week of November 2, 1992**

Continued to drill and vertically sample MW6SB.

Collected ground water samples from existing wells MW1, MW2, MW3, MW4 and MW5 for field screening analysis.

Collected a round of water levels from existing monitoring wells.

Began the EM-39 and gamma logging of MW1-MW6.\*

**Week of November 9, 1992**

Installed MW6SB.

Drilled and installed MW2SG.

Collected subsurface soil samples from MW2SG.

Began drilling MW4DB.

Collected a round of water levels from existing monitoring wells.

Completed the EM-39 and gamma logging of MW1-MW6.\*

On-site meeting with U.S. EPA, MDNR, State Health Department and County Health Department officials to discuss vertical sampling results, ground water flow directions and recommendations for additional well placement.

Performed the landfill cap evaluation. Hand augered at eight locations on the landfill cap. Collected soil samples for particle size analysis.

Surveyed landfill subsidence monuments.

Received 2 inorganic data packages from surface water sampling event.

**Anticipated progress for the Week of November 16, 1992**

Continue drilling and install MW4DB.

Drill MW3WB, MW3SG, MW1WB, and MW2WB.

Continue to survey and develop monitoring wells.

Examine magnetometer survey more closely, make recommendations for remaining landfill boring locations.

Sent December monthly sampling projections to Jan Pels.

Review inorganic data packages, make arrangements to begin entering into database system.

CC: 04011, 32